

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: K. HIGUCHI
Serial No.: Not yet assigned
Filed: June 25, 2001
For: MULTI-BAND RADIO TERMINAL APPARATUS
Group: 2681
Examiner: F. Gary

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

June 25, 2001

Sir:

The following amendments and remarks are respectfully submitted prior to the Rule 53(b) Continuation Application filed on even date.

IN THE SPECIFICATION

Please insert before the first line of the specification the following:

-- This is a continuation of application Serial No. 09/261,179, filed March 3, 1999. --

IN THE CLAIMS

Please cancel claims 1-6 without prejudice or disclaimer of the subject matter thereof.

a second local oscillator for producing a second local oscillator signal, and

a mixer for using said second local oscillator signal so as to convert a transmission base-band signal into a transmission intermediate frequency signal,

wherein said second local oscillator includes:

a plurality of oscillators having different oscillating frequency from each other, and

a switch for selectively supplying the oscillator outputs of said plural oscillators to said mixer,

wherein said switch selects a frequency out of said different frequencies in response to the frequency band of the radio signal used in the communication between the base station and the multi-band radio terminal apparatus.--

IN THE ABSTRACT

Please replace the Abstract of the invention with the attached new Abstract.

REMARKS

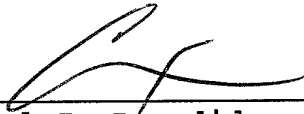
Entry of the above amendments prior to examination is respectfully requested.

Please charge any shortage in fees due in connection with the filing of this paper, or credit any overpayment of fees,

to the deposit account of Antonelli, Terry, Stout & Kraus,
LLP, Deposit Account No. 01-2135 (500.36977CX1).

Respectfully submitted,

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Abstract

In a multi-band radio terminal apparatus, even when communication frequency bands are switched, a reception intermediate frequency is selected to be equal to each other in the respective different communication frequency bands. The circuit arrangements of this multi-band radio terminal apparatus succeeding to the intermediate frequency signal circuit state are commonly used in the respective communication frequency bands. A local oscillator signal is produced by a voltage-controlled oscillator, a phase-locked loop, and a doubler, such that a communication is established within a plurality of communication frequency bands, the transmission/reception frequency intervals of which are different from each other. A mixer for reception system and a mixer for a transmission system are commonly used to convert the frequency of the local oscillator signal into a frequency existing between the communication frequency and the intermediate frequency.